

Publication

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Application

EP 96902413 A 19960119

Priority

- IB 9600169 W 19960119
- US 37677895 A 19950123

Abstract (en)

[origin: WO9623905A1] Electric arc furnace production of recycled steel is plagued by the formation of an iron-depleted, metal-rich electric arc flue dust (EAFD). In the present invention, at least about 85 wt.% of the base metals in the EAFD (i.e., lead, cadmium, copper, and zinc) is recovered as high quality metal products without producing any solid, liquid, or gaseous wastes. A recyclable calcium chloride/hydrochloric acid leach mill solution is used to extract the base metals from the EAFD in a reactor under a controlled pH of about 2.6 at an elevated temperature and pressure in an oxygen environment wherein the solids content in the reaction slurry is about 15 - 30 wt.%.

IPC 1-7

C22B 7/02

IPC 8 full level

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- No further relevant documents disclosed
- See references of WO 9623905A1

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